



NAVIGATOR™ SYSTEM PROCESSORS

Loudspeaker
Controller

Matrix Mixer

Signal Router

- Superior Sound Quality
- No Limit on DSP Power
- Equalization
- Crossovers
- FBX Feedback Exterminator®
- Gain Management
- Routing
- Delay
- Presets
- Security
- Full Front Panel Control
- Remote Computer Control
- Optional Ethernet, CobraNet, and Digital Audio I/O



NAV8800: 8 in 8 out System Processor



NAV4800: 4 in 8 out System Processor



NAV3600: 3 in 6 out System Processor

These new multi-function DSP units from Sabine are equally at home in the most demanding and diverse applications. Get full control and fast setup of your production audio rig, easy configuration and secure installation of your commercial or worship sound system, and complete signal routing for multi-room venues – all with Sabine's superior DSP algorithms and robust hardware platform. Set your course for a better sounding system with the new Navigator System Processors.

Sabine
Navigator
System Processor

*The course is set
for a better
sounding system...*



- Flexible & Fast, with Superior Sound
- Loudspeaker Controller for Production Audio
- Matrix Mixer for Commercial Audio
- Signal Router for Distributed Audio



Sabine is proud to announce a new line of audio system processors that are extremely flexible and easy to use, and are equally at home in both touring and fixed installation venues.

The Navigator Series is a complete multi-input/output digital system processor with full loudspeaker management, designed for commercial installation and production audio. The latest in available technology is utilized with 32-bit (40-bit extended) floating point processors and high performance 24-bit digital converters. The combination of Sabine's DSP algorithms and the high-bit DSP hardware give the Navigators superior sound quality.

As the name implies, the Navigator is all about control. Navigator Remote Control software provides a heads-up display of all systems status and fast access to all parameters.

Equally powerful is the front panel control for those times when you need full access at the rack position. When integrating the Navigator as part of a larger system, choose either CobraNet (coming soon) or Ethernet as your connection protocol.

Serial and Ethernet-based touch screen controls are also possible with all Navigators.

One of the pioneers in the field of digital signal processing, Sabine's research and development into digital filtering technology provides an edge in both sound quality and reliability. The FBX Feedback Exterminator is one of the many innovations originating from the engineers at Sabine. This intense research is applied to all DSP functions of the Navigators, including equalization, level control, delay, polarity, routing, multiple crossover selections, and gain management. Industry-standard Analog Devices SHARC processors handle the DSP processing.

Free firmware and software upgrades are easily done by connecting to Sabine's web site. You can always keep your Navigator current with newly developed algorithms and functions once available. Flexible save and recall functions and complete system security round out these rugged units.

Navigators will improve the sound quality and the adaptability of sound systems for churches, schools, boardrooms, theaters, concert halls, offices, retail outlets, and all levels of touring and production systems.

Contact Sabine today for a test flight of the new Navigator System Processors.



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NAVIGATOR TOOLS

Equalization:

- Parametric, Shelving, High & Low pass, 6-bands per each I/O
- FBX Feedback Exterminator, 12 filters per input

Crossovers

- Multiple types and presets
- Three filter types
- Slopes to 48 dB

Gain Management

- Gain on all I/Os
- Compressors
- Limiters
- Automatic Gain Control

Routing & Delay

- All inputs to all outputs
- Polarity
- 450 msec available per channel

Performance

- 48 or 96 KHz Sampling Rate
- 24 A/D, D/A Converters
- 32-bit (40-bit extended) processing

Memory and Security

- 30 programs, save and recall
- Multiple security levels; password protected
- All firmware and software upgradeable

Controls

- Front panel: Instant menu access and linking for each I/O; Gain LEDs for each channel; LCD, datawheel
- Remote: Navigator Remote Control Software via RS232 Serial
- Options: CobraNet (TBA), Ethernet, Digital Audio I/O

Models:

NAV8800: 8 in 8 out System Processor

NAV4800: 4 in 8 out System Processor

NAV3600: 3 in 6 out System Processor

NAV8800-EN: 8 in 8 out System Processor with Ethernet

NAV4800-EN: 4 in 8 out System Processor with Ethernet

NAV3600-EN: 3 in 6 out System Processor with Ethernet

NAVIGATOR SPECIFICATIONS

Inputs and Outputs

Input Impedance: >10k Ohms
 Output Impedance: 50 Ohms
 Maximum Level: +20dBu
 Type: Electronically balanced

Audio Performance

Freq Response: +/-0.1dB (20 to 20kHz)
 Dynamic Range: 115dB typ (unweighted)
 CMMR: >60dB (50 to 10kHz)
 Crosstalk: <-100dB
 Distortion: 0.002% (1kHz @+4dBu)

Digital Audio Performance

Processor: 32-bit (40-bit extended)
 Sampling Rate: 48kHz
 Analog Converters: High Performance 24-bit
 Propagation Delay: 1.47ms

Front Panel Controls

Display: 4 x 26 Character Backlit LCD
 Level Meters: 5 Segment LED
 Buttons: 12 Mute Controls
 12 Gain/Menu Controls
 6 Menu Controls
 Dial Encoder: Embedded Thumb Wheel

Connectors

Audio: 3-pin XLR; Multi-pin Phoenix (NAV8800)
 RS-232: Female DB-9
 Power: Standard IEC Socket

General

Power: 115 /230 VAC (50 /60Hz)
 Dimensions: 19" x 1.75" x 8" (483 x 44 x 203mm)
 Weight: 10 lbs./4.6 kg

Audio Control Parameters

Gain: -40 to +15dB in 0.25dB steps
 Polarity: +/-
 Delay: Up to 450ms per I/O

Equalizers: 8 per I/O; Parametric, Hi-shelf, Lo-shelf, FBX®
 Crossover Filters: 2 per Output; Butterworth, Bessel, Linkwitz-Riley
 Slopes: 6 to 48dB/oct

FBX/Parametric Filters

8 independent digital filters per channel, controlled automatically or parametrically from 20 Hz to 20 KHz, each switchable between FBX fixed filters, FBX dynamic filters, and parametric filters

Filter depth: user-controllable in 1 dB steps from +15 dB to -84 dB (parametric mode), 3 dB steps from 0 dB to -40 dB (FBX mode), max. automatic depth adjustable from -6 to -40 dB

Filter width: user-controllable from 2.50 to .02 octave

Resolution: 1 Hz from 20 Hz to 20 KHz in FBX and parametric mode

Time required to find and eliminate feedback: typically 0.3 seconds @ 1 KHz

Digital Compressor/Limiter

Threshold: +20 dBu to -20 dBu
 Ratio: 1:1 through infinity
 Knee: soft/hard
 Attack: 0.3 to 100ms
 Release: 2 to 32X the attack time

System Parameters

Number of Programs: 30
 Preset Configurations: Generic, 2, 3, 4-Way, plus other variations
 Front Panel & Software Security Locks: Any individual menu, password protected

Upgrades

Operating system firmware stored in Flash RAM. All future upgrades for firmware and software downloadable from Sabine website using Upgrade Wizard.

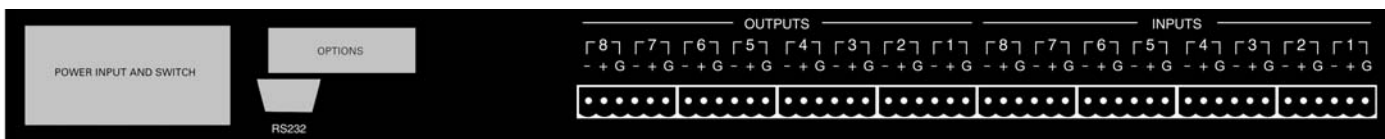
Notes:

Below approximately 200 Hz the feedback filters become slightly wider to increase the feedback and rumble capture speed at these low frequencies.

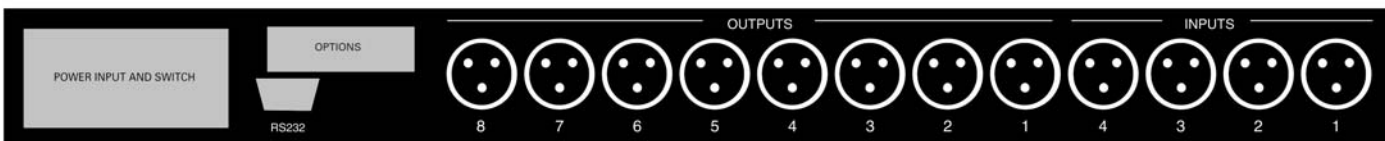
Tests performed using an Audio Precision System One model 322 or equal.

Specifications subject to change without notice.

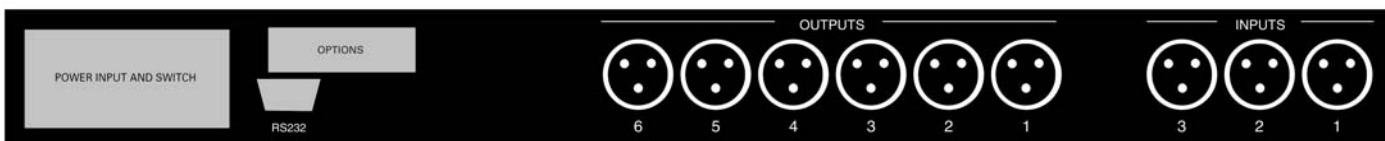
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NAV3600: 3 in 6 out System Processor

One-year limited warranty
 Patented†
 Other Patents Pending



Complete Operating Guide & Catalog
 available at our website

www.Sabine.com

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†FBX and FBX Feedback Exterminator are registered trademarks of Sabine, Inc., and are the brand names of its line of automatic feedback controllers. Covered by U.S. Patent No. 5,245,665, Australian Patent No. 653,736, German Patent No. 69118486.0, U.K. Patent No. 0486679, and Canadian Patent No. 2,066,624-2. Other patents pending.